ENVIRONMENTAL RESOLUTIONS, INC.

October 15, 2005

Mr. Jose Quevedo
Los Angeles County Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803

Subject: **Quarterly Groundwater Monitoring and Status Report for the Third Quarter 2005**
Former Mobil Station 18F2Q
12616 Imperial Highway
Norwalk, California
LACDPW File No. I-346

Mr. Quevedo:

At the request of ExxonMobil Oil Corporation (ExxonMobil), Environmental Resolutions, Inc. is submitting the Third Quarter 2005 ExxonMobil Quarterly Groundwater Monitoring and Status Report for the above-referenced site. The format utilized for the report consolidates groundwater sampling (where applicable), Title 23, Subchapter 16 reporting and consultant progress updates for ExxonMobil into one summary report.

Please call me at (949) 457-7999 if you have any questions.

Sincerely,
Environmental Resolutions, Inc.

Patrick J. Toelkes
Project Manager
P.G. 7155

cc: Mr. Gregory K. Barton, ExxonMobil

20372 North Sea Circle, Lake Forest, California 92630-8806 949-457-8950 (FAX 457-8956)
Lake Forest • Novato • Seattle

3316
EXNQTRLY
Date: October 15, 2005

EXXONMOBIL QUARTERLY GROUNDWATER MONITORING AND STATUS REPORT

Site Status: Former Mobil Station
RAS Location #: 18F2Q Address: 12616 Imperial Highway, Norwalk, CA
ExxonMobil Environmental Engineer: Mr. Gregory K. Barton
Consulting Co./Contact Person: ERI/Mr. Patrick J. Toelkes
Primary Agency/ID Number: Mr. Jose Quevedo
Los Angeles County Department of Public Works
900 South Fremont Avenue, Alhambra, CA 91803-1331
File #I-346

WORK PERFORMED THIS QUARTER [Third - 2005]:

- 07/21/05 – Submitted quarterly groundwater report for the second quarter 2005.
- 09/20/05 – Conducted quarterly purge groundwater monitoring and sampling for five wells. Properly recycled purge water at Crosby & Overton of Long Beach, California, under a non-hazardous waste manifest. Manifest will be included with the fourth quarter 2005 quarterly report.
- A copy of the manifest for recycling of purge water during the second quarter 2005 is included with this report.

WORK PROPOSED FOR NEXT QUARTER [Fourth – 2005]:

- Submit a quarterly report.
- Conduct quarterly purge groundwater monitoring and sampling.

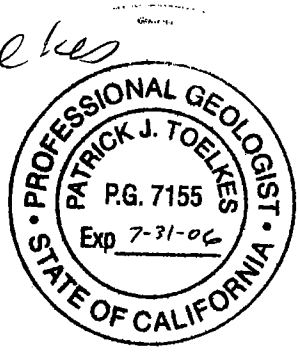
Current Phase of Project: Monitoring and sampling
Frequency of Monitoring and Sampling: Quarterly
Liquid Phase Hydrocarbons Present on Site: None
Cumulative LPH Recovered to Date: None
Water Wells or Surface Waters within a 1000' Radius & Their Respective Directions: None
Current Remediation Techniques: None
Permits for Discharge: None
Depth to Groundwater: 101 to 102 feet bgs – measured on 09/20/05

Please call Mr. Patrick J. Toelkes at (949) 457-7999 for any questions regarding this report.

Sincerely,
Environmental Resolutions, Inc.

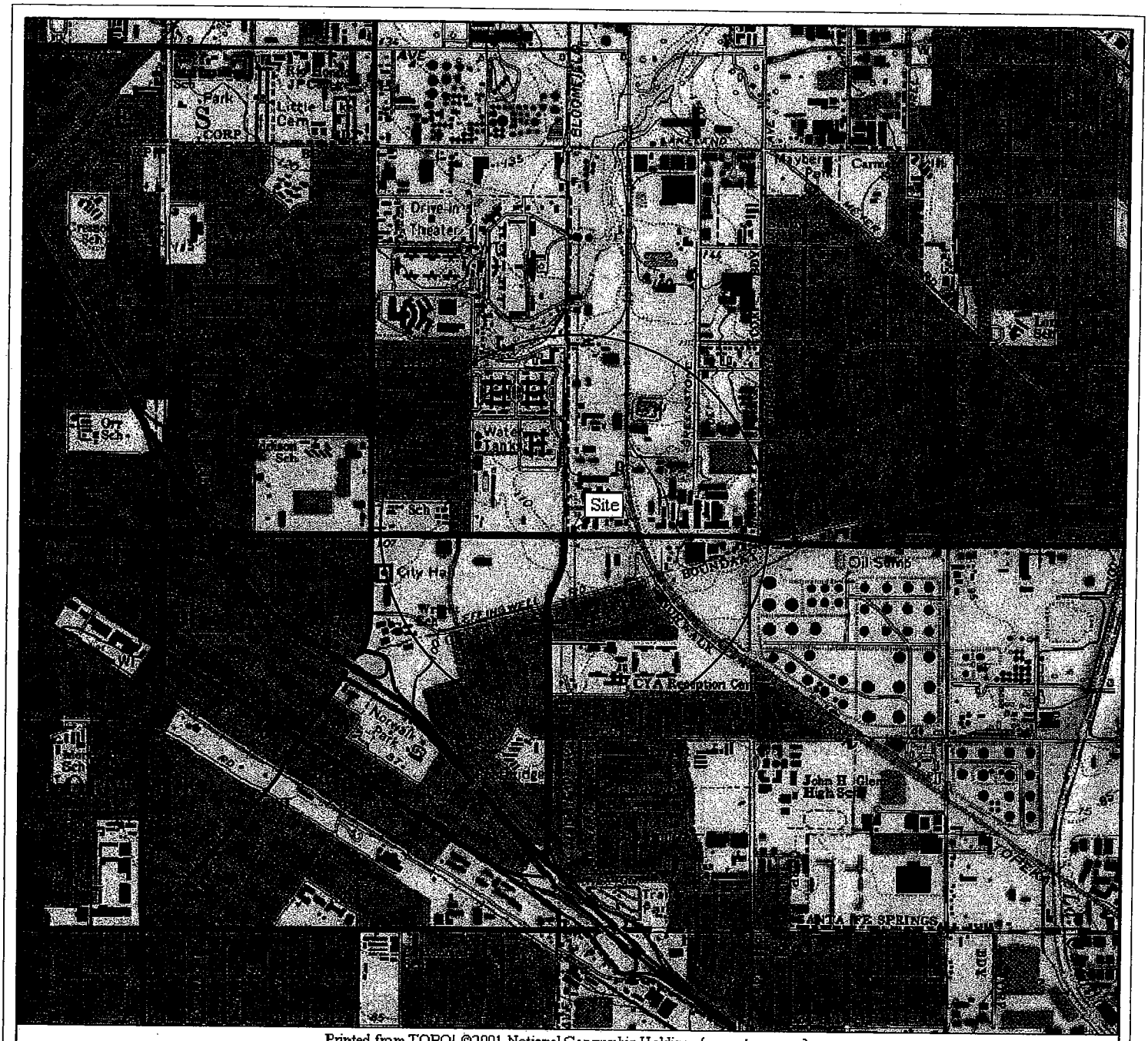
Patrick J. Toelkes

Patrick J. Toelkes
P.G. 7155



ATTACHED:

- Site Location Map (Plate 1)
- Groundwater Elevation Contour Map – 09/20/05 (Plate 2)
- Benzene Groundwater Isopleth Concentration Map – 09/20/05 (Plate 3)
- MTBE Groundwater Isopleth Concentration Map – 09/20/05 (Plate 4)
- Water Level Measurements and Groundwater Analyses (Table 1)
- Cumulative Water Level Measurements and Groundwater Analyses (Table 2)
- Laboratory Report and Chain-of-Custody Record
- Purging and Sampling Records
- Purging and Sampling Protocol
- Non-Hazardous Waste Manifest for the Second Quarter 2005



FN 3316TOPO

Map Name: Whittier, CA
Version: 1981

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

SOURCE:
Modified from a map
provided by
National Geographic's TOPO!

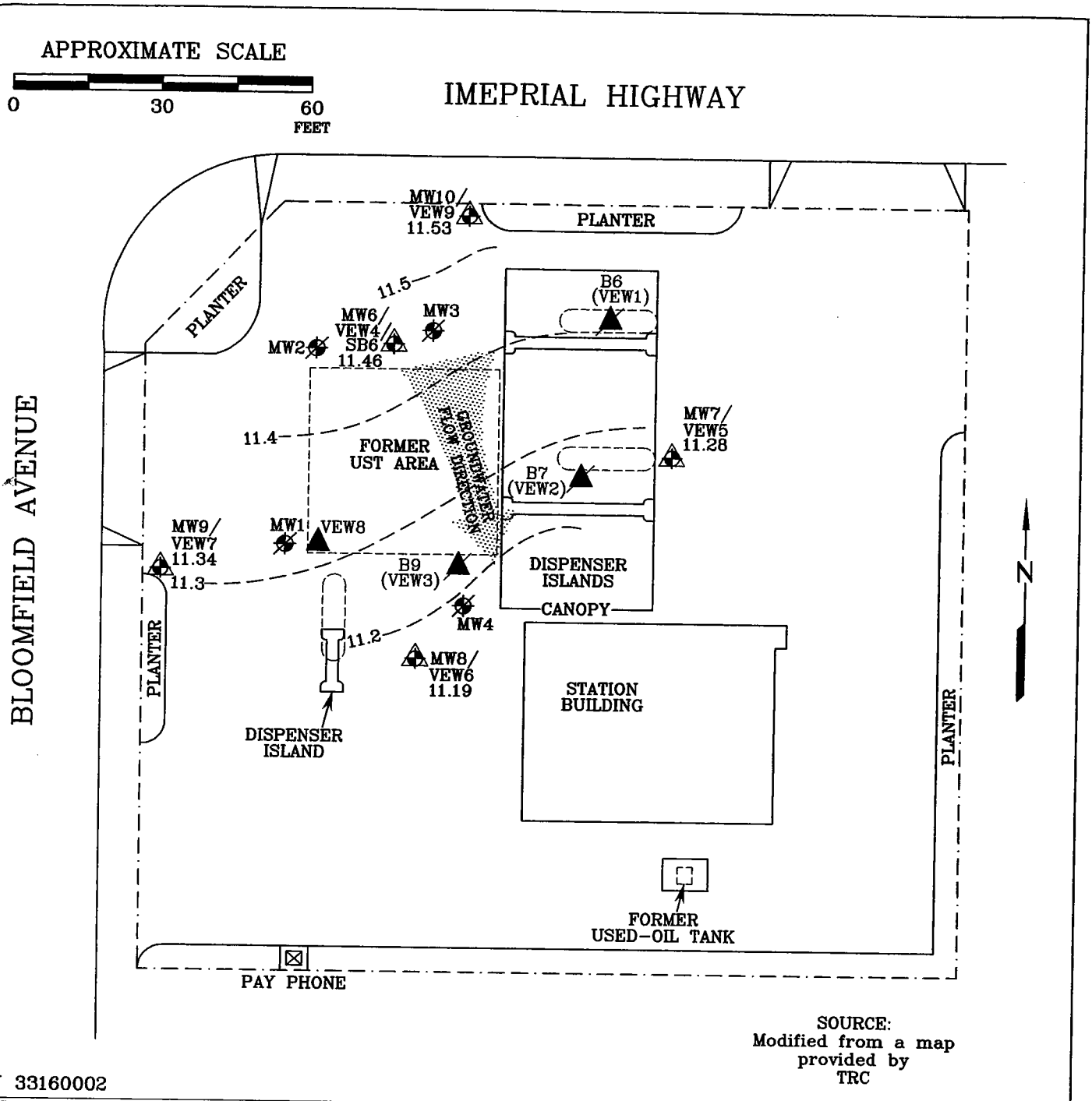
ERI ENVIRONMENTAL RESOLUTIONS, INC

SITE LOCATION MAP

FORMER MOBIL STATION 18F2Q
12616 Imperial Highway
Norwalk, California

PROJECT NO. 3316

PLATE 1



SOURCE:
Modified from a map
provided by
TRC

FN 33160002

EXPLANATION

MW10/ VEW9	Groundwater monitoring/vapor extraction well
VEW8	Soil vapor extraction well
MW4	Destroyed groundwater monitoring well
VEW2	Destroyed soil vapor extraction well
	Former dispenser island
11.53	Groundwater elevation (feet, relative to mean sea level)
— — — —	Line of equal groundwater elevation

ENVIRONMENTAL RESOLUTIONS, INC.

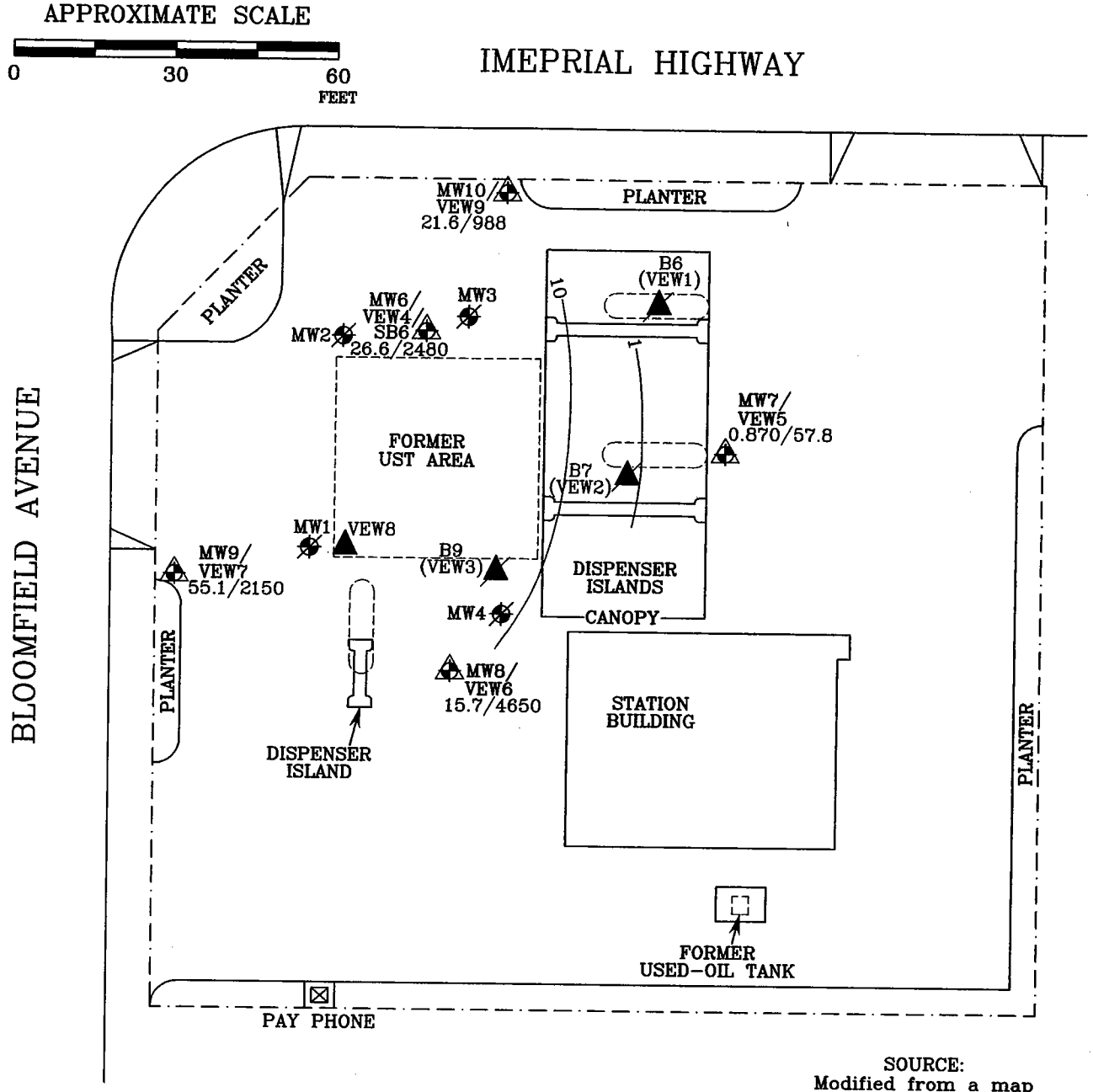
GROUNDWATER ELEVATION CONTOUR MAP - 09/20/05

FORMER MOBIL STATION 18F2Q
12616 Imperial Highway
Norwalk, California

PROJECT NO. 3316

PLATE 2

DATE: 10/05/05



SOURCE:
Modified from a map
provided by
TRC

FN 33160002

EXPLANATION

MW10/ VEW9	Groundwater monitoring/vapor extraction well	55.1/2150	Benzene/TPHg concentration in ug/l
VEW8	Soil vapor extraction well	———	Line of equal benzene concentration
MW4	Destroyed groundwater monitoring well	ug/l	Micrograms per liter
VEW2	Destroyed soil vapor extraction well		
	Former dispenser island		

ERI ENVIRONMENTAL RESOLUTIONS, INC.

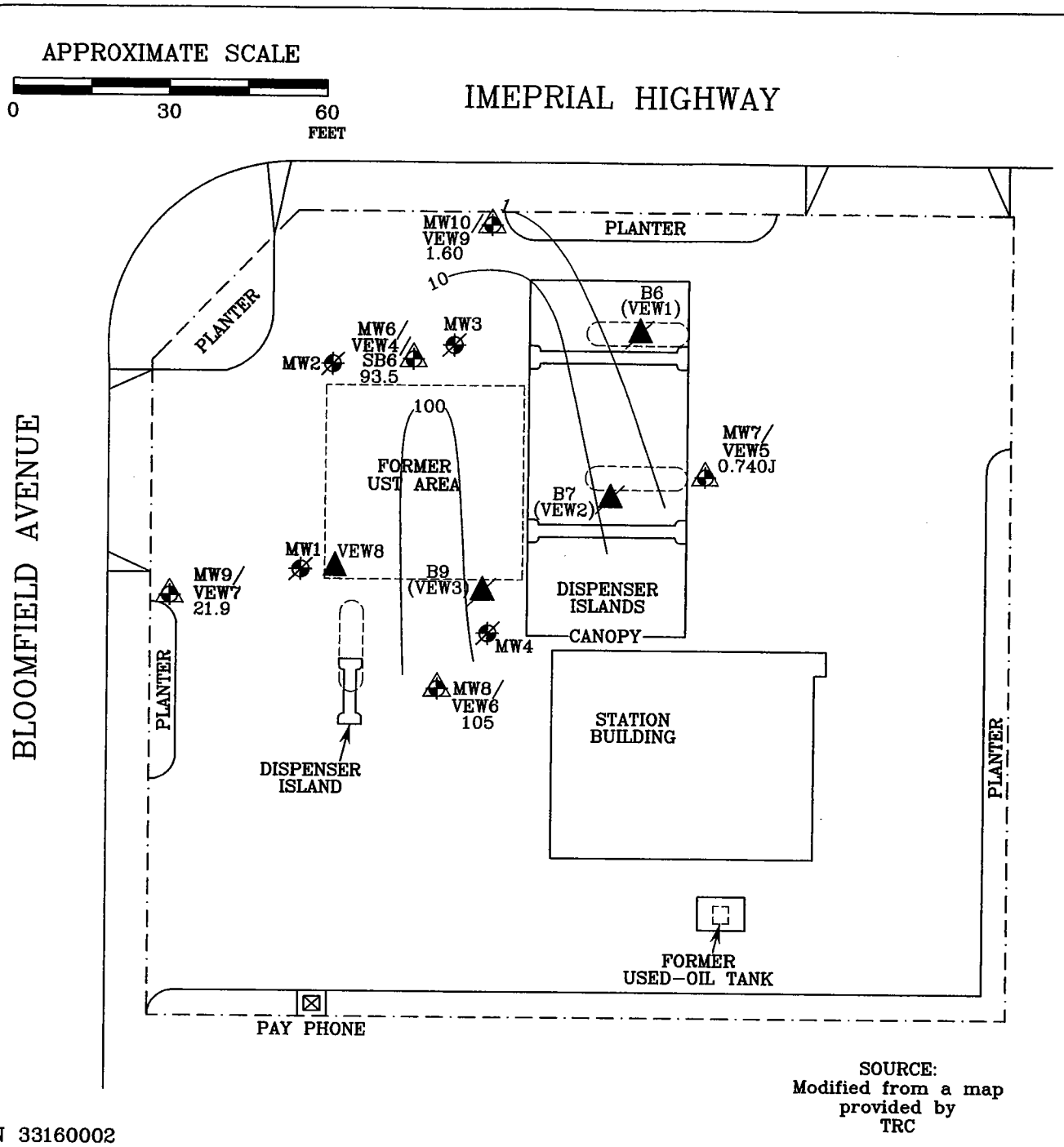
BENZENE GROUNDWATER ISOPLETH CONCENTRATION MAP - 09/20/05

FORMER MOBIL STATION 18F2Q
12616 Imperial Highway
Norwalk, California

PROJECT NO. 3316

PLATE 3

DATE: 10/05/05



SOURCE:
Modified from a map
provided by
TRC

FN 33160002

EXPLANATION

MW10/ VEW9	Groundwater monitoring/vapor extraction well
VEW8	Soil vapor extraction well
MW4	Destroyed groundwater monitoring well
VEW2	Destroyed soil vapor extraction well
	Former dispenser island
105	MTBE concentration in ug/l
J	Estimated value between method detection limit and practical quantitation limit
ug/l	Micrograms per liter
———	Line of equal MTBE concentration

ERI ENVIRONMENTAL RESOLUTIONS, INC.

MTBE GROUNDWATER ISOPLETH CONCENTRATION MAP - 09/20/05

FORMER MOBIL STATION 18F2Q
12616 Imperial Highway
Norwalk, California

PROJECT NO. 3316

PLATE 4

DATE: 10/05/05

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
FORMER MOBIL STATION 18F2Q
12616 IMPERIAL HIGHWAY
NORWALK, CALIFORNIA
ERI 3316

MW6	ELEV:	112.98							
DATE	GW DEPTH	GW ELEV.	B	T	E	X	TPHg	MTBE	TBA
09/20/05	101.52	11.46	26.6	11.5	95.8	729	2480	93.5	<10.0
MW7	ELEV:	113.22							
DATE	GW DEPTH	GW ELEV.							
09/20/05	101.94	11.28	0.870	<0.500	<0.500	<0.500	57.8	0.740 J	<10.0
MW8	ELEV:	112.63							
DATE	GW DEPTH	GW ELEV.							
09/20/05	101.44	11.19	15.7	22.7	38.4	1130	4650	105	<10.0
MW9	ELEV:	112.02							
DATE	GW DEPTH	GW ELEV.							
09/20/05	100.68	11.34	55.1	8.58	97.8	472	2150	21.9	<10.0
MW10	ELEV:	112.52							
DATE	GW DEPTH	GW ELEV.							
09/20/05	100.99	11.53	21.6	<0.500	<0.500	36.6	988	1.60	<10.0

EXPLANATION:

Results reported in micrograms per liter (ug/l).

GW = groundwater

ELEV = elevation

B = benzene; T = toluene; E = ethylbenzene; X = total xylene isomers; TPHg = total petroleum hydrocarbons as gasoline

Methyl tertiary butyl ether (MTBE) analyzed by Environmental Protection Agency Method 8260B.

TBA = tertiary butyl alcohol

J = estimated value between method detection limit and practical quantification value

<10.0 = not detected at or above the stated laboratory reporting limit

TABLE 2

CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

FORMER MOBIL STATION 18F2Q

12616 IMPERIAL HIGHWAY

NORWALK, CALIFORNIA

ERI 3316

Date	Well Elev	GW Depth	GW Elev	LPH	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	TPHg (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)
Field Point	**MW6**	***Well Screen Interval (feet):***												
02/18/05	112.98	99.90	13.08	no	26.8	2.00	13.8	700	2550	23.8	<1.00	<1.00	<1.00	<10.0
06/21/2005	112.98	99.71	13.27	no	25.2	27.0	134	1100	3230	75.1	<1.00	<1.00	<1.00	45.5
09/20/05	112.98	101.52	11.46	no	26.6	11.5	95.8	729	2480	93.5	<1.00	<1.00	<1.00	<10.0
Field Point	**MW7**	***Well Screen Interval (feet):***												
02/18/05	113.22	100.32	12.90	no	<1.00	<1.00	<1.00	<1.00	<50.0	<2.00	<1.00	<1.00	<1.00	<10.0
06/21/2005	113.22	100.11	13.11	no	<0.50	<0.50	<0.50	<0.50	122	0.90 J	<1.00	<1.00	<1.00	<10.0
09/20/05	113.22	101.94	11.28	no	0.870	<0.500	<0.500	<0.500	57.8	0.740 J	<1.00	<1.00	<1.00	<10.0
Field Point	**MW8**	***Well Screen Interval (feet):***												
02/18/05	112.63	99.72	12.91	no	48.0	1.20	<1.00	327	1290	4.60	<1.00	<1.00	<1.00	<10.0
06/21/2005	112.63	99.61	13.02	no	27.0	48.9	92.7	1690	4290	114	<1.00	<1.00	<1.00	6.20 J
09/20/05	112.63	101.44	11.19	no	15.7	22.7	38.4	1130	4650	105	<1.00	<1.00	<1.00	<10.0
Field Point	**MW9**	***Well Screen Interval (feet):***												
02/18/05	112.02	98.99	13.03	no	109	252	630	7800	21900	<2.00	<1.00	<1.00	<1.00	<10.0
06/21/2005	112.02	98.87	13.15	no	190	222	1080	9300	13700	16.3	<1.00	<1.00	<1.00	<10.0
09/20/05	112.02	100.68	11.34	no	55.1	8.58	97.8	472	2150	21.9	<1.00	<1.00	<1.00	<10.0
Field Point	**MW10**	***Well Screen Interval (feet):***												
02/24/05	112.52	99.46	13.06	no	30.0	<1.00	12.4	559	1900	4.60	<1.00	<1.00	<1.00	<10.0
06/21/2005	112.52	99.16	13.36	no	16.3	0.70	33.6	364	1520	2.60	<1.00	<1.00	<1.00	<10.0
09/20/05	112.52	100.99	11.53	no	21.6	<0.500	<0.500	36.6	988	1.60	<1.00	<1.00	<1.00	<10.0

TABLE 2

CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

FORMER MOBIL STATION 18F2Q

12616 IMPERIAL HIGHWAY

NORWALK, CALIFORNIA

ERI 3316

Explanation:
ELEV = elevation
EPA = Environmental Protection Agency
GW = groundwater
DIPE = di-isopropyl ether
ETBE = ethyl tertiary butyl ether
TAME = tertiary amyl methyl ether
TBA = tertiary butyl alcohol
TPHg = total petroleum hydrocarbons as gasoline
MTBE = methyl tertiary butyl ether
MTBE analyzed by EPA Method 8260B.
LPH = liquid phase hydrocarbons (thickness measured in feet)
J = estimated value between method detection limit and practical quantification limit
Data prior to second quarter 2005 taken from previous consultant's groundwater table.
<50.0 = not detected at or above stated laboratory reporting limit
ug/l = micrograms per liter

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

ORIGINAL

P61

October 04, 2005

Client: ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn: Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Nbr: ERI 3316 13
Date Received: 09/22/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
W-101-MW7	NOI2309-01	09/20/05 09:28
W-101-MW6	NOI2309-02	09/20/05 10:10
W-100-MW10	NOI2309-03	09/20/05 10:52
W-101-MW8	NOI2309-04	09/20/05 11:35
W-100-MW9	NOI2309-05	09/20/05 12:15
Trip Blanks	NOI2309-06	09/20/05

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

Report Approved By:

Roxanne L. Connor

Roxanne Connor
Senior Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI2309-01 (W-101-MW7 - Water) Sampled: 09/20/05 09:28										
Oxygenates by EPA 8260B										
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	09/26/05 23:28	SW846 8260B	BH	5093988
Benzene	**0.870**		ug/L	0.250	0.500	1	09/26/05 23:28	SW846 8260B	BH	5093988
Ethylbenzene	<0.500		ug/L	0.190	0.500	1	09/26/05 23:28	SW846 8260B	BH	5093988
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	09/26/05 23:28	SW846 8260B	BH	5093988
Toluene	<0.500		ug/L	0.170	0.500	1	09/26/05 23:28	SW846 8260B	BH	5093988
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1	09/26/05 23:28	SW846 8260B	BH	5093988
Methyl tert-Butyl Ether	**0.740**	J	ug/L	0.230	1.00	1	09/26/05 23:28	SW846 8260B	BH	5093988
Tertiary Butyl Alcohol	<10.0		ug/L	8.86	10.0	1	09/28/05 03:17	SW846 8260B	BH	5094142
Xylenes, total	<0.500		ug/L	0.330	0.500	1	09/26/05 23:28	SW846 8260B	BH	5093988
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*92 %*			-	-	*1*	*09/26/05 23:28*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*100 %*			-	-	*1*	*09/28/05 03:17*	*SW846 8260B*	*BH*	*5094142*
Surrogate: Dibromofluoromethane (79-122%)	*87 %*			-	-	*1*	*09/26/05 23:28*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Dibromofluoromethane (79-122%)	*99 %*			-	-	*1*	*09/28/05 03:17*	*SW846 8260B*	*BH*	*5094142*
Surrogate: Toluene-d8 (78-121%)	*84 %*			-	-	*1*	*09/26/05 23:28*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Toluene-d8 (78-121%)	*101 %*			-	-	*1*	*09/28/05 03:17*	*SW846 8260B*	*BH*	*5094142*
Surrogate: 4-Bromofluorobenzene (78-126%)	*98 %*			-	-	*1*	*09/26/05 23:28*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 4-Bromofluorobenzene (78-126%)	*99 %*			-	-	*1*	*09/28/05 03:17*	*SW846 8260B*	*BH*	*5094142*
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	**57.8**		ug/L	33.0	50.0	1	09/25/05 10:09	CA LUFT	kc	5093767
Surrogate: a,a,a-Trifluorotoluene (63-134%)	*101 %*			-	-	*1*	*09/25/05 10:09*	*CA LUFT*	*kc*	*5093767*
Sample ID: NOI2309-02 (W-101-MW6 - Water) Sampled: 09/20/05 10:10										
Oxygenates by EPA 8260B										
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	09/26/05 23:57	SW846 8260B	BH	5093988
Benzene	**26.6**		ug/L	0.250	0.500	1	09/26/05 23:57	SW846 8260B	BH	5093988
Ethylbenzene	**95.8**		ug/L	0.190	0.500	1	09/26/05 23:57	SW846 8260B	BH	5093988
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	09/26/05 23:57	SW846 8260B	BH	5093988
Toluene	**11.5**		ug/L	0.170	0.500	1	09/26/05 23:57	SW846 8260B	BH	5093988
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1	09/26/05 23:57	SW846 8260B	BH	5093988
Methyl tert-Butyl Ether	**93.5**		ug/L	0.230	1.00	1	09/26/05 23:57	SW846 8260B	BH	5093988
Tertiary Butyl Alcohol	<100		ug/L	88.6	100	10	09/28/05 11:40	SW846 8260B	BH	5094142
Xylenes, total	**729**		ug/L	3.30	5.00	10	09/28/05 11:40	SW846 8260B	BH	5094142
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*96 %*			-	-	*1*	*09/26/05 23:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*100 %*			-	-	*1*	*09/28/05 11:40*	*SW846 8260B*	*BH*	*5094142*
Surrogate: Dibromofluoromethane (79-122%)	*88 %*			-	-	*1*	*09/26/05 23:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Dibromofluoromethane (79-122%)	*99 %*			-	-	*1*	*09/28/05 11:40*	*SW846 8260B*	*BH*	*5094142*
Surrogate: Toluene-d8 (78-121%)	*86 %*			-	-	*1*	*09/26/05 23:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Toluene-d8 (78-121%)	*93 %*			-	-	*1*	*09/28/05 11:40*	*SW846 8260B*	*BH*	*5094142*
Surrogate: 4-Bromofluorobenzene (78-126%)	*92 %*			-	-	*1*	*09/26/05 23:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 4-Bromofluorobenzene (78-126%)	*88 %*			-	-	*1*	*09/28/05 11:40*	*SW846 8260B*	*BH*	*5094142*
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	**2480**		ug/L	660	1000	20	09/28/05 00:21	CA LUFT	gg	5094088
Surrogate: a,a,a-Trifluorotoluene (63-134%)	*103 %*			-	-	*20*	*09/28/05 00:21*	*CA LUFT*	*gg*	*5094088*

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Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI2309-03 (W-100-MW10 - Water) Sampled: 09/20/05 10:52										
Oxygenates by EPA 8260B										
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	09/27/05 00:27	SW846 8260B	BH	5093988
Benzene	**21.6**		ug/L	0.250	0.500	1	09/27/05 00:27	SW846 8260B	BH	5093988
Ethylbenzene	<0.500		ug/L	0.190	0.500	1	09/27/05 00:27	SW846 8260B	BH	5093988
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	09/27/05 00:27	SW846 8260B	BH	5093988
Toluene	<0.500		ug/L	0.170	0.500	1	09/27/05 00:27	SW846 8260B	BH	5093988
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1	09/27/05 00:27	SW846 8260B	BH	5093988
Methyl tert-Butyl Ether	**1.60**		ug/L	0.230	1.00	1	09/27/05 00:27	SW846 8260B	BH	5093988
Tertiary Butyl Alcohol	<10.0		ug/L	8.86	10.0	1	09/27/05 00:27	SW846 8260B	BH	5093988
Xylenes, total	**36.6**		ug/L	0.330	0.500	1	09/27/05 00:27	SW846 8260B	BH	5093988
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*95 %*			-	-	*1*	*09/27/05 00:27*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Dibromofluoromethane (79-122%)	*89 %*			-	-	*1*	*09/27/05 00:27*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Toluene-d8 (78-121%)	*84 %*			-	-	*1*	*09/27/05 00:27*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 4-Bromofluorobenzene (78-126%)	*94 %*			-	-	*1*	*09/27/05 00:27*	*SW846 8260B*	*BH*	*5093988*
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	**988**		ug/L	33.0	50.0	1	09/25/05 10:38	CA LUFT	kc	5093767
Surrogate: a,a,a-Trifluorotoluene (63-134%)	*97 %*			-	-	*1*	*09/25/05 10:38*	*CA LUFT*	*kc*	*5093767*
Sample ID: NOI2309-04 (W-101-MW8 - Water) Sampled: 09/20/05 11:35										
Oxygenates by EPA 8260B										
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	09/27/05 00:57	SW846 8260B	BH	5093988
Benzene	**15.7**		ug/L	0.250	0.500	1	09/27/05 00:57	SW846 8260B	BH	5093988
Ethylbenzene	**38.4**		ug/L	0.190	0.500	1	09/27/05 00:57	SW846 8260B	BH	5093988
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	09/27/05 00:57	SW846 8260B	BH	5093988
Toluene	**22.7**		ug/L	0.170	0.500	1	09/27/05 00:57	SW846 8260B	BH	5093988
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1	09/27/05 00:57	SW846 8260B	BH	5093988
Methyl tert-Butyl Ether	**105**		ug/L	0.230	1.00	1	09/27/05 00:57	SW846 8260B	BH	5093988
Tertiary Butyl Alcohol	<10.0		ug/L	8.86	10.0	1	09/27/05 00:57	SW846 8260B	BH	5093988
Xylenes, total	**1130**		ug/L	3.30	5.00	10	09/28/05 12:10	SW846 8260B	BH	5094142
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*95 %*			-	-	*1*	*09/27/05 00:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*100 %*			-	-	*1*	*09/28/05 12:10*	*SW846 8260B*	*BH*	*5094142*
Surrogate: Dibromofluoromethane (79-122%)	*88 %*			-	-	*1*	*09/27/05 00:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Dibromofluoromethane (79-122%)	*98 %*			-	-	*1*	*09/28/05 12:10*	*SW846 8260B*	*BH*	*5094142*
Surrogate: Toluene-d8 (78-121%)	*86 %*			-	-	*1*	*09/27/05 00:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Toluene-d8 (78-121%)	*94 %*			-	-	*1*	*09/28/05 12:10*	*SW846 8260B*	*BH*	*5094142*
Surrogate: 4-Bromofluorobenzene (78-126%)	*95 %*			-	-	*1*	*09/27/05 00:57*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 4-Bromofluorobenzene (78-126%)	*85 %*			-	-	*1*	*09/28/05 12:10*	*SW846 8260B*	*BH*	*5094142*
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	**4650**		ug/L	660	1000	20	09/28/05 00:52	CA LUFT	gg	5094088
Surrogate: a,a,a-Trifluorotoluene (63-134%)	*103 %*			-	-	*20*	*09/28/05 00:52*	*CA LUFT*	*gg*	*5094088*
Sample ID: NOI2309-05 (W-100-MW9 - Water) Sampled: 09/20/05 12:15										
Oxygenates by EPA 8260B										
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	09/27/05 01:26	SW846 8260B	BH	5093988
Benzene	**55.1**		ug/L	0.250	0.500	1	09/27/05 01:26	SW846 8260B	BH	5093988

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOI2309-05 (W-100-MW9 - Water) - cont. Sampled: 09/20/05 12:15										
Selected Volatile Organic Compounds by EPA Method 8260B - cont.										
Ethylbenzene	**97.8**		ug/L	0.190	0.500	1	09/27/05 01:26	SW846 8260B	BH	5093988
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	09/27/05 01:26	SW846 8260B	BH	5093988
Toluene	**8.58**		ug/L	0.170	0.500	1	09/27/05 01:26	SW846 8260B	BH	5093988
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1	09/27/05 01:26	SW846 8260B	BH	5093988
Methyl tert-Butyl Ether	**21.9**		ug/L	0.230	1.00	1	09/27/05 01:26	SW846 8260B	BH	5093988
Tertiary Butyl Alcohol	<10.0		ug/L	8.86	10.0	1	09/27/05 01:26	SW846 8260B	BH	5093988
Xylenes, total	**472**		ug/L	0.330	0.500	1	09/27/05 01:26	SW846 8260B	BH	5093988
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*96 %*			-	-	*1*	*09/27/05 01:26*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Dibromofluoromethane (79-122%)	*89 %*			-	-	*1*	*09/27/05 01:26*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Toluene-d8 (78-121%)	*88 %*			-	-	*1*	*09/27/05 01:26*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 4-Bromofluorobenzene (78-126%)	*98 %*			-	-	*1*	*09/27/05 01:26*	*SW846 8260B*	*BH*	*5093988*
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	**2150**		ug/L	33.0	50.0	1	09/25/05 11:07	CA LUFT	kc	5093767
Surrogate: a,a,a-Trifluorotoluene (63-134%)	*99 %*			-	-	*1*	*09/25/05 11:07*	*CA LUFT*	*kc*	*5093767*
Sample ID: NOI2309-06 (Trip Blanks - Water) Sampled: 09/20/05										
Oxygenates by EPA 8260B										
Tert-Amyl Methyl Ether	<1.00		ug/L	0.300	1.00	1	09/26/05 19:30	SW846 8260B	BH	5093988
Benzene	<0.500		ug/L	0.250	0.500	1	09/26/05 19:30	SW846 8260B	BH	5093988
Ethylbenzene	<0.500		ug/L	0.190	0.500	1	09/26/05 19:30	SW846 8260B	BH	5093988
Ethyl tert-Butyl Ether	<1.00		ug/L	0.270	1.00	1	09/26/05 19:30	SW846 8260B	BH	5093988
Toluene	<0.500		ug/L	0.170	0.500	1	09/26/05 19:30	SW846 8260B	BH	5093988
Isopropyl Ether	<1.00		ug/L	0.180	1.00	1	09/26/05 19:30	SW846 8260B	BH	5093988
Methyl tert-Butyl Ether	<1.00		ug/L	0.230	1.00	1	09/26/05 19:30	SW846 8260B	BH	5093988
Tertiary Butyl Alcohol	<10.0		ug/L	8.86	10.0	1	09/26/05 19:30	SW846 8260B	BH	5093988
Xylenes, total	<0.500		ug/L	0.330	0.500	1	09/26/05 19:30	SW846 8260B	BH	5093988
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	*102 %*			-	-	*1*	*09/26/05 19:30*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Dibromofluoromethane (79-122%)	*92 %*			-	-	*1*	*09/26/05 19:30*	*SW846 8260B*	*BH*	*5093988*
Surrogate: Toluene-d8 (78-121%)	*96 %*			-	-	*1*	*09/26/05 19:30*	*SW846 8260B*	*BH*	*5093988*
Surrogate: 4-Bromofluorobenzene (78-126%)	*100 %*			-	-	*1*	*09/26/05 19:30*	*SW846 8260B*	*BH*	*5093988*
Purgeable Petroleum Hydrocarbons										
GRO (C4-C12)	<50.0		ug/L	33.0	50.0	1	09/25/05 09:10	CA LUFT	kc	5093767
Surrogate: a,a,a-Trifluorotoluene (63-134%)	*110 %*			-	-	*1*	*09/25/05 09:10*	*CA LUFT*	*kc*	*5093767*

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Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Oxygenates by EPA 8260B						
5093988-BLK1						
Tert-Amyl Methyl Ether	<0.300		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Benzene	<0.250		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Ethylbenzene	<0.190		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Ethyl tert-Butyl Ether	<0.270		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Toluene	<0.170		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Isopropyl Ether	<0.180		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Methyl tert-Butyl Ether	<0.230		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Tertiary Butyl Alcohol	<8.86		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Xylenes, total	<0.330		ug/L	5093988	5093988-BLK1	09/26/05 18:31
Surrogate: 1,2-Dichloroethane-d4	103%			5093988	5093988-BLK1	09/26/05 18:31
Surrogate: Dibromofluoromethane	94%			5093988	5093988-BLK1	09/26/05 18:31
Surrogate: Toluene-d8	94%			5093988	5093988-BLK1	09/26/05 18:31
Surrogate: 4-Bromofluorobenzene	94%			5093988	5093988-BLK1	09/26/05 18:31
5094142-BLK1						
Tert-Amyl Methyl Ether	<0.300		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Benzene	<0.250		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Ethylbenzene	<0.190		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Ethyl tert-Butyl Ether	<0.270		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Toluene	<0.170		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Isopropyl Ether	<0.180		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Methyl tert-Butyl Ether	<0.230		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Tertiary Butyl Alcohol	<8.86		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Xylenes, total	<0.330		ug/L	5094142	5094142-BLK1	09/28/05 00:19
Surrogate: 1,2-Dichloroethane-d4	99%			5094142	5094142-BLK1	09/28/05 00:19
Surrogate: Dibromofluoromethane	99%			5094142	5094142-BLK1	09/28/05 00:19
Surrogate: Toluene-d8	102%			5094142	5094142-BLK1	09/28/05 00:19
Surrogate: 4-Bromofluorobenzene	100%			5094142	5094142-BLK1	09/28/05 00:19
5094142-BLK2						
Tert-Amyl Methyl Ether	<0.300		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Benzene	<0.250		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Ethylbenzene	<0.190		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Ethyl tert-Butyl Ether	<0.270		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Toluene	<0.170		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Isopropyl Ether	<0.180		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Methyl tert-Butyl Ether	<0.230		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Tertiary Butyl Alcohol	<8.86		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Xylenes, total	<0.330		ug/L	5094142	5094142-BLK2	09/28/05 08:13
Surrogate: 1,2-Dichloroethane-d4	99%			5094142	5094142-BLK2	09/28/05 08:13
Surrogate: Dibromofluoromethane	101%			5094142	5094142-BLK2	09/28/05 08:13
Surrogate: Toluene-d8	105%			5094142	5094142-BLK2	09/28/05 08:13

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Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B						
5094142-BLK2						
Surrogate: 4-Bromofluorobenzene	96%			5094142	5094142-BLK2	09/28/05 08:13
Purgeable Petroleum Hydrocarbons						
5093767-BLK1						
GRO (C4-C12)	<33.0		ug/L	5093767	5093767-BLK1	09/25/05 08:11
Surrogate: a,a,a-Trifluorotoluene	97%			5093767	5093767-BLK1	09/25/05 08:11
5094088-BLK1						
GRO (C4-C12)	<33.0		ug/L	5094088	5094088-BLK1	09/27/05 22:17
Surrogate: a,a,a-Trifluorotoluene	101%			5094088	5094088-BLK1	09/27/05 22:17
5094088-BLK2						
GRO (C4-C12)	<33.0		ug/L	5094088	5094088-BLK2	09/28/05 10:12
Surrogate: a,a,a-Trifluorotoluene	101%			5094088	5094088-BLK2	09/28/05 10:12

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Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Oxygenates by EPA 8260B								
5093988-BS1								
Tert-Amyl Methyl Ether	50.0	52.5		ug/L	105%	63 - 133	5093988	09/26/05 15:00
Benzene	50.0	53.1		ug/L	106%	76 - 127	5093988	09/26/05 15:00
Ethylbenzene	50.0	59.0		ug/L	118%	80 - 124	5093988	09/26/05 15:00
Ethyl tert-Butyl Ether	50.0	51.9		ug/L	104%	63 - 141	5093988	09/26/05 15:00
Toluene	50.0	51.2		ug/L	102%	79 - 124	5093988	09/26/05 15:00
Isopropyl Ether	50.0	54.6		ug/L	109%	79 - 130	5093988	09/26/05 15:00
Methyl tert-Butyl Ether	50.0	58.8		ug/L	118%	66 - 136	5093988	09/26/05 15:00
Tertiary Butyl Alcohol	500	915	L1	ug/L	183%	41 - 160	5093988	09/26/05 15:00
Xylenes, total	150	184		ug/L	123%	80 - 125	5093988	09/26/05 15:00
Surrogate: 1,2-Dichloroethane-d4	50.0	48.9			98%	70 - 130	5093988	09/26/05 15:00
Surrogate: 1,2-Dichloroethane-d4	50.0	48.9			98%	70 - 130	5093988	09/26/05 15:00
Surrogate: Dibromofluoromethane	50.0	46.6			93%	79 - 122	5093988	09/26/05 15:00
Surrogate: Dibromofluoromethane	50.0	46.6			93%	79 - 122	5093988	09/26/05 15:00
Surrogate: Toluene-d8	50.0	41.0			82%	78 - 121	5093988	09/26/05 15:00
Surrogate: Toluene-d8	50.0	41.0			82%	78 - 121	5093988	09/26/05 15:00
Surrogate: 4-Bromofluorobenzene	50.0	43.2			86%	78 - 126	5093988	09/26/05 15:00
Surrogate: 4-Bromofluorobenzene	50.0	43.2			86%	78 - 126	5093988	09/26/05 15:00
5094142-BS1								
Tert-Amyl Methyl Ether	50.0	55.9		ug/L	112%	63 - 133	5094142	09/27/05 23:19
Benzene	50.0	52.5		ug/L	105%	76 - 127	5094142	09/27/05 23:19
Ethylbenzene	50.0	52.7		ug/L	105%	80 - 124	5094142	09/27/05 23:19
Ethyl tert-Butyl Ether	50.0	54.7		ug/L	109%	63 - 141	5094142	09/27/05 23:19
Toluene	50.0	54.2		ug/L	108%	79 - 124	5094142	09/27/05 23:19
Isopropyl Ether	50.0	54.3		ug/L	109%	79 - 130	5094142	09/27/05 23:19
Methyl tert-Butyl Ether	50.0	54.0		ug/L	108%	66 - 136	5094142	09/27/05 23:19
Tertiary Butyl Alcohol	500	513		ug/L	103%	41 - 160	5094142	09/27/05 23:19
Xylenes, total	150	161		ug/L	107%	80 - 125	5094142	09/27/05 23:19
Surrogate: 1,2-Dichloroethane-d4	50.0	49.6			99%	70 - 130	5094142	09/27/05 23:19
Surrogate: 1,2-Dichloroethane-d4	50.0	49.6			99%	70 - 130	5094142	09/27/05 23:19
Surrogate: Dibromofluoromethane	50.0	50.0			100%	79 - 122	5094142	09/27/05 23:19
Surrogate: Dibromofluoromethane	50.0	50.0			100%	79 - 122	5094142	09/27/05 23:19
Surrogate: Toluene-d8	50.0	49.0			98%	78 - 121	5094142	09/27/05 23:19
Surrogate: Toluene-d8	50.0	49.0			98%	78 - 121	5094142	09/27/05 23:19
Surrogate: 4-Bromofluorobenzene	50.0	44.9			90%	78 - 126	5094142	09/27/05 23:19
Surrogate: 4-Bromofluorobenzene	50.0	44.9			90%	78 - 126	5094142	09/27/05 23:19
5094142-BS2								
Tert-Amyl Methyl Ether	50.0	51.5		ug/L	103%	63 - 133	5094142	09/28/05 07:14
Benzene	50.0	57.0		ug/L	114%	76 - 127	5094142	09/28/05 07:14
Ethylbenzene	50.0	52.0		ug/L	104%	80 - 124	5094142	09/28/05 07:14
Ethyl tert-Butyl Ether	50.0	51.4		ug/L	103%	63 - 141	5094142	09/28/05 07:14

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Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
5094142-BS2								
Toluene	50.0	52.8		ug/L	106%	79 - 124	5094142	09/28/05 07:14
Isopropyl Ether	50.0	54.8		ug/L	110%	79 - 130	5094142	09/28/05 07:14
Methyl tert-Butyl Ether	50.0	54.7		ug/L	109%	66 - 136	5094142	09/28/05 07:14
Tertiary Butyl Alcohol	500	811	L1	ug/L	162%	41 - 160	5094142	09/28/05 07:14
Xylenes, total	150	158		ug/L	105%	80 - 125	5094142	09/28/05 07:14
Surrogate: 1,2-Dichloroethane-d4	50.0	50.0			100%	70 - 130	5094142	09/28/05 07:14
Surrogate: 1,2-Dichloroethane-d4	50.0	50.0			100%	70 - 130	5094142	09/28/05 07:14
Surrogate: Dibromofluoromethane	50.0	51.7			103%	79 - 122	5094142	09/28/05 07:14
Surrogate: Dibromofluoromethane	50.0	51.7			103%	79 - 122	5094142	09/28/05 07:14
Surrogate: Toluene-d8	50.0	47.3			95%	78 - 121	5094142	09/28/05 07:14
Surrogate: Toluene-d8	50.0	47.3			95%	78 - 121	5094142	09/28/05 07:14
Surrogate: 4-Bromofluorobenzene	50.0	43.5			87%	78 - 126	5094142	09/28/05 07:14
Surrogate: 4-Bromofluorobenzene	50.0	43.5			87%	78 - 126	5094142	09/28/05 07:14
Purgeable Petroleum Hydrocarbons								
5093767-BS1								
GRO (C4-C12)	1000	998		ug/L	100%	64 - 130	5093767	09/25/05 19:54
Surrogate: a,a,a-Trifluorotoluene	30.0	36.1			120%	63 - 134	5093767	09/25/05 19:54
5094088-BS1								
GRO (C4-C12)	1000	898		ug/L	90%	64 - 130	5094088	09/28/05 08:39
Surrogate: a,a,a-Trifluorotoluene	30.0	34.5			115%	63 - 134	5094088	09/28/05 08:39
5094088-BS2								
GRO (C4-C12)	1000	856		ug/L	86%	64 - 130	5094088	09/28/05 15:03
Surrogate: a,a,a-Trifluorotoluene	30.0	34.9			116%	63 - 134	5094088	09/28/05 15:03

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Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Oxygenates by EPA 8260B										
5093988-MS1										
Tert-Amyl Methyl Ether		44.5		ug/L	50.0	89%	49 - 149	5093988	NOI2309-02	09/27/05 03:25
Benzene	26.6	46.2	M2	ug/L	50.0	39%	62 - 146	5093988	NOI2309-02	09/27/05 03:25
Ethylbenzene	95.8	52.3	M2	ug/L	50.0	-87%	65 - 145	5093988	NOI2309-02	09/27/05 03:25
Ethyl tert-Butyl Ether		44.4		ug/L	50.0	89%	47 - 160	5093988	NOI2309-02	09/27/05 03:25
Toluene	11.5	47.0		ug/L	50.0	71%	68 - 141	5093988	NOI2309-02	09/27/05 03:25
Isopropyl Ether		47.0		ug/L	50.0	94%	54 - 155	5093988	NOI2309-02	09/27/05 03:25
Methyl tert-Butyl Ether	93.5	51.2	M2	ug/L	50.0	-85%	46 - 158	5093988	NOI2309-02	09/27/05 03:25
Tertiary Butyl Alcohol	17.4	748		ug/L	500	146%	10 - 198	5093988	NOI2309-02	09/27/05 03:25
Surrogate: 1,2-Dichloroethane-d4		48.3		ug/L	50.0	97%	70 - 130	5093988	NOI2309-02	09/27/05 03:25
Surrogate: 1,2-Dichloroethane-d4		48.3		ug/L	50.0	97%	70 - 130	5093988	NOI2309-02	09/27/05 03:25
Surrogate: Dibromofluoromethane		46.0		ug/L	50.0	92%	79 - 122	5093988	NOI2309-02	09/27/05 03:25
Surrogate: Dibromofluoromethane		46.0		ug/L	50.0	92%	79 - 122	5093988	NOI2309-02	09/27/05 03:25
Surrogate: Toluene-d8		44.0		ug/L	50.0	88%	78 - 121	5093988	NOI2309-02	09/27/05 03:25
Surrogate: Toluene-d8		44.0		ug/L	50.0	88%	78 - 121	5093988	NOI2309-02	09/27/05 03:25
Surrogate: 4-Bromofluorobenzene		47.2		ug/L	50.0	94%	78 - 126	5093988	NOI2309-02	09/27/05 03:25
Surrogate: 4-Bromofluorobenzene		47.2		ug/L	50.0	94%	78 - 126	5093988	NOI2309-02	09/27/05 03:25

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Oxygenates by EPA 8260B												
5093988-MSD1												
Tert-Amyl Methyl Ether		54.2		ug/L	50.0	108%	49 - 149	20	34	5093988	NOI2309-02	09/27/05 03:55
Benzene	26.6	86.6	R2	ug/L	50.0	120%	62 - 146	61	25	5093988	NOI2309-02	09/27/05 03:55
Ethylbenzene	95.8	189	M1	ug/L	50.0	186%	65 - 145	113	26	5093988	NOI2309-02	09/27/05 03:55
Ethyl tert-Butyl Ether		53.0		ug/L	50.0	106%	47 - 160	18	30	5093988	NOI2309-02	09/27/05 03:55
Toluene	11.5	68.8	R2	ug/L	50.0	115%	68 - 141	38	29	5093988	NOI2309-02	09/27/05 03:55
Isopropyl Ether		56.0		ug/L	50.0	112%	54 - 155	17	23	5093988	NOI2309-02	09/27/05 03:55
Methyl tert-Butyl Ether	93.5	166	R2	ug/L	50.0	145%	46 - 158	106	31	5093988	NOI2309-02	09/27/05 03:55
Tertiary Butyl Alcohol	17.4	948		ug/L	500	186%	10 - 198	24	43	5093988	NOI2309-02	09/27/05 03:55
Surrogate: 1,2-Dichloroethane-d4		47.9		ug/L	50.0	96%	70 - 130			5093988	NOI2309-02	09/27/05 03:55
Surrogate: 1,2-Dichloroethane-d4		47.9		ug/L	50.0	96%	70 - 130			5093988	NOI2309-02	09/27/05 03:55
Surrogate: Dibromofluoromethane		45.6		ug/L	50.0	91%	79 - 122			5093988	NOI2309-02	09/27/05 03:55
Surrogate: Dibromofluoromethane		45.6		ug/L	50.0	91%	79 - 122			5093988	NOI2309-02	09/27/05 03:55
Surrogate: Toluene-d8		42.2		ug/L	50.0	84%	78 - 121			5093988	NOI2309-02	09/27/05 03:55
Surrogate: Toluene-d8		42.2		ug/L	50.0	84%	78 - 121			5093988	NOI2309-02	09/27/05 03:55
Surrogate: 4-Bromofluorobenzene		45.7		ug/L	50.0	91%	78 - 126			5093988	NOI2309-02	09/27/05 03:55
Surrogate: 4-Bromofluorobenzene		45.7		ug/L	50.0	91%	78 - 126			5093988	NOI2309-02	09/27/05 03:55

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Client ERI Lake Forest (10224)
20372 North Sea Circle
Lake Forest, CA 92630
Attn Pat Toelkes

Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	AIHA	Nelac	California
CA LUFT	Water		X	X
SW846 8260B	Water	N/A	X	X

TestAmerica
ANALYTICAL TESTING CORPORATION
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Work Order: NOI2309
Project Name: Exxon 18-F2Q PO:4505904641
Project Number: ERI 3316 13
Received: 09/22/05 08:00

NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method	Matrix	Analyte

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	ERI Lake Forest (10224)	Work Order:	NOI2309
	20372 North Sea Circle	Project Name:	Exxon 18-F2Q PO:4505904641
	Lake Forest, CA 92630	Project Number:	ERI 3316 13
Attn	Pat Toelkes	Received:	09/22/05 08:00

DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division

COOLER RECEIPT FORM **BC#**

NOI2309

Client Name : ERT

Cooler Received/Opened On: 9/22/05 **Accessioned By:** Paul R. Buckingham II

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.8 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO....NA
   a. If yes, how many and where: 1 front
3. Were custody seals on containers?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert Ziplock baggies Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

5729

Fed-Ex UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

labeled by Jimmy H.

BIS = Broken in shipment
Cooler Receipt Form

LF-1
End of Form

Revised 4/5/05

TestAmerica INCORPORATED
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-7[illegible]80
Fax: 615-72[illegible]404

Page 1 of 1

ExxonMobil

Consultant Name: Environmental Resolutions, Inc.
Address: 20372 North Sea Circle
City/State/Zip: Lake Forest, CA 92630
ExxonMobil Territory Mgr: GREG BARTON
Consultant Project Mgr: PAT TOELKES
Consultant Telephone Number: 949-457-8950 Fax No.: 949-457-8956
Sampler Name: (Print) Jorge Gonzalez
Sampler Signature:

TA Account #: 10224
Invoice To: GREG BARTON
Report To: PAT TOELKES
PO #: 4505904641
Facility ID # ERI 3316 13 / EXXONMOBIL 18F2Q
Site Address 12616 IMPERIAL HIGHWAY
City, State, Zip NORWALK, CA
Regulatory District (CA) LARWQCB

NOI2309
10/03/05 17:00

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8015M DIESEL-CAL LUFT	TPH/GAS-CAL LUFT	FULL SCAN 8260B +OXYGENATES / GC/MS	METHANOL -CAL LUFT	ETHANOL (8260)	*8260B/BTEX +OXYGENATES / GC/MS	*BTEX/MTBE BY 802	8010	REDOX POTENTIAL	NITRATE/SULFATE	METI	Schedule: RUSH	5 DAY	Fax Rel	Due Date
W-101-MW7	9/21/05	0928	5	X					X						X							X				X							X		01
W-101-MW6	"	1010	"	X					X						X							X				X							X		02
W-100-MW10	"	1052	"	X					X						X							X				X							X		03
W-101-MW8	"	1135	"	X					X						X							X				X							X		04
W-100-MW9	"	1215	"	X					X						X							X				X							X		05
TRIP BLANKS	"	—	4	X					X						X							X				X							X		DLe

Comments/Special Instructions: *OXYGENATES WHEN REQUESTED ABOVE TO INCLUDE; BTEX, MTBE, DIPE, ETBE, TAME, TBA.

CONSULTANT ID # ERIL
GLOBAL ID # T0603702703

"PLEASE E-MAIL ALL EDF FILES TO RSHEARER@ERI-US.COM"

Relinquished by:	Date	Time	Received by:	Date	Time
	9/21/05	11:00		9/21/05	11:00
Relinquished by:	Date	Time	Received by (Lab personel)	Date	Time
	9/21/05	16:00		9/21/05	16:00

Laboratory Comments:
Temperature Upon Receipt: 0.8
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

QC Deliverables (please circle one)
Level 2
Level 3
Level 4

5 DAY TURN-AROUND FOR EXXONMOBIL REQUIRED

Site Specific-if yes, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions

PURGING AND SAMPLING RECORD - FIELD LOG

CLIENT NAME: EXXONMOBIL 18F2Q | ERI JOB # 3316 13 | 0.163 FOR A 2" WELL
SITE LOCATION: 12616 IMPERIAL HIGHWAY | ANALYSIS: TPHg/8260B | 0.652 FOR A 4" WELL
FIELD CREW: ER/JG | DATE: 9/20/05 | 1.167 FOR A 6" WELL

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL(gal)	PRG VOL	COND.	TEMP	pH
MW7	8:20 AM	101.94	114.49	4	8.19	24			
	8:55 AM					1	1.51	73.2	7.03
	9:03 AM					8	1.54	73.6	7.05
	9:11 AM					16	1.58	74.1	7.04
	9:18 AM					24	1.60	74.8	7.01
SW	9:28 AM	102.74							
COMMENTS	Water cloudy								

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL	PRG VOL	COND.	TEMP	pH
MW6	8:25 AM	101.52	114.55	4	8.51	24			
	9:38 AM					1	1.62	73.1	7.15
	9:46 AM					8	1.64	72.8	7.52
	9:53 AM					16	1.66	72.6	7.78
	10:00 AM					24	1.69	72.2	7.81
SW	10:10 AM	102.15							
COMMENTS	Water cloudy								

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL	PRG VOL	COND.	TEMP	pH
MW10	8:30 AM	100.99	112.92	4	7.78734	21			
	10:20 AM					1	1.76	72.5	7.53
	10:27 AM					7	1.87	72.8	7.54
	10:34 AM					14	1.89	73.1	7.53
	10:42 AM					21	1.91	73.3	7.52
SW	10:52 AM	101.65							
COMMENTS	Water cloudy								

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL	PRG VOL	COND.	TEMP	pH
MW8	8:35 AM	101.44	114.29	4	8.39	24			
	11:02 AM					1	1.66	72.8	7.52
	11:10 AM					8	1.68	72.6	7.49
	11:18 AM					16	1.70	72.4	7.47
	11:25 AM					24	1.72	71.9	7.46
SW	11:35 AM	102.21							
COMMENTS	Water cloudy								

PURGING AND SAMPLING RECORD - FIELD LOG

CLIENT NAME: EXXONMOBIL 18F2Q | ERI JOB # 3316 13 | 0.163 FOR A 2" WELL
SITE LOCATION: 12616 IMPERIAL HIGHWAY | ANALYSIS: TPHg/8260B | 0.652 FOR A 4" WELL
FIELD CREW:ER/JG | DATE: 9/20/05 | 1.167 FOR A 6" WELL

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL	PRG VOL	COND.	TEMP	pH
MW9	8:40 AM	100.68	113.51	4	8.37	24			
	11:45 AM					1	1.76	72.7	7.15
	11:52 AM					8	1.74	72.5	7.13
	11:59 AM					16	1.73	72.1	7.11
	12:05 PM					24	1.71	71.8	7.10
SW	12:15 PM	101.23							

COMMENTS: Water cloudy

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL	PRG VOL	COND.	TEMP	pH
SW									

COMMENTS:

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL	PRG VOL	COND.	TEMP	pH
				4	0.00				
SW									

COMMENTS:

WELL #	TIME	DEPTH TO WATER	DEPTH TO WELL	CASE DIA	CASE VOL	PRG VOL	COND.	TEMP	pH
				4	0				
SW									

COMMENTS:

SOP-5
WELL SAMPLING & SURVEYING
Rev 6/05

WELL SAMPLING AND SURVEYING

1) Open well heads. This may require a socket or a special Allen wrench.

2) If the wells are not surveyed by a licensed land surveyor, then survey the wells if this hasn't been done before as follows:

   a) Select a permanent benchmark (e.g. curb at corner of site, property line). Record on "SURVEYGW" form.
   b) Measure and record rectangular coordinates from benchmark to each well.
   c) Set up tripod and transit where it can see all wells and the benchmark = Station "A". If you can't see all wells, two transit locations must be used. At least one well surveyed from Station "A" must be resurveyed from Station "B". Preferably, two or more wells are resurveyed.
   d) Carefully level the tripod using the bubble indicator.
   e) Place stadia rod on benchmark and record height from crosshair to reference, (D_o).
   f) Place stadia rod on each well (at the notch) and record ht. from well to crosshair, (D_w).
   g) Calculate casing elevation as shown on data sheet SURVEYGW.

   To check the accuracy in leveling the transit, set the transit in second spot and repeat steps 2c through 2g. Recalculation of casing elevations should agree within 0.01 ft. or a third placement of the tripod will be required.

3) Set up a decon station. This consists of four (4) buckets. Fill the first with deionized water and one (1) teaspoon (approximately one cap full) of Liquinox soap. Fill the next three (3) buckets with deionized water. To decon a probe or water level indicator, place the element and the tape in the buckets in series, finishing with a good rise. To decon a pump, place the pump, hose and wire leads into the buckets in series, and circulate water through the pump in each bucket. Move the equipment from the dirtiest to cleanest bucket, rinsing thoroughly in each bucket.

4) Decon the interface probe or water level indicator before inserting into each well. Review the historical groundwater concentrations and sample from cleanest well to hottest well, deconing between each well. Lower probe/indicator until it beeps - raise and lower and mark the level on the tape with your thumb. Estimate level to the nearest 0.01 ft. Note the depth to free product if present as indicated by the interface probe and the depth to water on your field notes and log. Note any odor when the probe is withdrawn from the well. Look for the notch or ink mark on the top of the well and measure all levels from that. Notch should be on the highest side of the well pipe. If no side is high, notch should be on the north side. Measure from the casing adjacent to the notch - not from the bottom of the notch. If there is no notch - make one. For sites that have free product, or historically have had free product, use a bailer to remove a sample of the top of the water column and measure the product in the bailer or look for a sheen. Take a picture of any bailers with product after labeling the bailer with the well number.

5) If there is free product, do not purge or sample. The presence of liquid phase hydrocarbons means the concentration in the water will be high anyway and the pump will be difficult to get clean enough to avoid contaminating other wells.

6) Developing: If the well has not been developed (it is new), surge the well by moving bailer up and down vigorously in the well for about 5 minutes. This will wash silt from the sand pack into the well where it can be removed.

7) Pull out as much silt as possible by running the bailer all the way to the bottom and withdrawing. Continue bailing until water is fairly clear or until local regulatory specifications are met. Removal of silt with the bailer will extend the pump life. Contact the Project Manager if water does not clear up by 10 casing volumes.

8) Decon pump by washing in TSP/water the rinsing with tap water and rinsing again with deionized water. Then pump clean water through the pump to push out any dirty water.

9) Purging: Place pump in well about 2 to 5 feet off bottom. Withdraw at least 3 casing volumes from the well, or until temperature, pH and conductivity stabilize (see local regulations). Be careful not to let the pump run dry. If an electric purging pump is used, such as a Grundfos pump, check the water level in the well with the water level indicator and slow pump down when water level is within 2 ft of the pump head. While purging, collect a water sample as often as possible and check for pH, conductivity, and temperature. Stable pH and conductivity would indicate the well has been filled with representative groundwater and purging is complete. If well recharges slowly, remove 1.5 casing volumes. Estimate flow rates by recording the time it takes to fill a 5-gallon bucket (1/2 of a 55-gallon barrel, etc.)

10) Decon pump thoroughly between each well by repeating step 7.

11) Label bottles with a "Sharpie Pen" when they are dry. Label as W-xx-MWy, where xx is water depth below surface in feet and y is well number (refer to SOP-1).

12) After the well has been developed, sample the water using a disposable bailer and surgical gloves to prevent oil from your hands from contaminating the sample. Be sure to leave no headspace or bubbles in any water sample to be tested for volatiles. Wells should be sampled within (24) hours of purging and the well should have recovered to within 80% of its volume before purging. (Slow recharge wells need to be addressed with the Project Manager - and may have to be purged slowly). Gasoline contaminated water requires at least three (3) 40 ml VOA's from each well. Preserve samples by acidifying to pH <2 (usually with two drops of HCl). Water suspected of contamination with oil or diesel requires 2 1-liter samples in amber bottles. Samples contaminated with oil will require 10 drops of H_2SO_4 for preservation. Samples for organic lead require two (2) 1-liter amber bottles.

13) Place like vials in a baggie and label the baggie. Put vials and baggie in an ice chest filled with ice and document samples and analyses required on a chain of custody. Take samples to the laboratory the same day samples are collected if possible, at least within 24 hours.

14) Clean wellhead gaskets (seals), put locking caps on the wells and replace the covers. Cover and label the drums (if any) of purge and decon water.

Analysis	Bottles	Preservative
8015 mod gasoline/8020(602)	min. of 3 x 40 ml VOA	2 drops HCl to pH <2
8015 mod diesel/8020(602)	2 1-liter & 3 x 40 ml VOA	2 drops HCl to pH <2 (applied to VOA's)
418.1 (TRPH)	2 1-liter amber	10 drops H_2SO_4 to pH <2
Organic Lead	2 1-liter amber	no preservative suggested
HOC - 8010 (601)	min. of 3 x 40 ml VOA	no preservative suggested

Items Needed:
Water Level Indicator
Disposable Bailers
Generator
Grundfos Pump and Reel
Grundfos Pump Control Box
Hydac Cond/Temp/pH Meter
Liter Bottles
VOAs
Distilled Water
4 Buckets
Bottle Brush
TSP Detergent
Stainless Steel Cable or Poly Rope
Cooler with Ice
Socket set and Allen Wrench (CNI Key)
Plastic sheeting

Items Needed for Surveying:
Topcon AT-F7 Transit
Tripod
Stadia Rod

SOP-6
Quarterly Well Monitoring
Rev 6/05

QUARTERLY WELL MONITORING

1) Give the site manager advance notification of field activities. Arrange for a sufficient number of drums. Obtain a site plan with the location and ID's of the wells to be monitored and a copy of the table from the last quarterly report with the previous groundwater data.

2) Open well heads. This may require a socket or a special allen wrench.

3) Set up decon station per SOP-5. Measure groundwater depths with water level indicator as per SOP-5 before any other action is taken. If the depth to the bottom of the monitoring well is unknown, reel out the water level indicator until you feel the probe contact the bottom. You may have to raise and lower the probe several times to "feel" contact with the bottom. The probe is not very heavy, and the bottom of the well may have a cushioning layer of silt. Record the depth of the well once you feel confident the probe is at the bottom. Note odors from well.

4) Calculate the linear footage of water in each well, by subtracting the depth to water from the total well depth. To obtain the casing volume in gallons, multiply the linear footage by a constant for the given well casing diameter. Typically, three casing volumes are purged from each well prior to sampling. **Always** Round up - if 3.4 gallons, then purge 4 gallons - if 12.1 gallons, then purge 13 gallons.

Casing diameter	Gallons per linear foot
2"	0.17
4"	0.66
6"	1.50
8"	2.60

5) After measuring all water levels, begin purging the wells in order of the cleanest to the most contaminated based on last quarter's data. Well purging procedures are outlined in SOP-5. While wells containing free floating product may not be sampled, the project manager may want the free product removed manually by bailer. Check with the project manager before bailing LPH. You may find that for shallow wells, it may be quicker to bail manually rather than set up the pump. Place purge and decon water in a 55-gallon drum or treat on site. Do not mix purge water from different wells in one drum. Record all purge data on Groundwater Sampling Field Logs. Record "LPH" and the thickness in feet and inches (to nearest 1/16 of an inch) in the comments section if a measurable level of LPH present. If non-measurable amount present then record "Sheen" in the comments section.

6) When the well has recovered at least 80% of its' original water level, collect samples using a clean, new disposable bailer. Use a new disposable bailer for each well. Make sure the rope or line is tied securely on the bailer, you don't want to go fishing. Sample in order of the cleanest to the most contaminated. If required, collect field (equipment) blanks.

7) Trip blanks are a QA/QC procedure that must be collected at every site. Obtain a trip blank from the laboratory. They will make them up for you. The trip blank to taken unopened to the site and is kept with the other samples in the cooler unopened during the day's sampling. Label the bottle as an arbitrary monitoring well. For example: if there are 5 monitoring wells to be sampled at the site, the trip blank should be labeled as if it were a sample from MW6. The trip blank is never opened and it is used to determine if any contaminants are introduced by the laboratory or during transportation of the samples.

8) Field (equipment) blanks are a QA/QC procedure to be collected at the project manager's discretion (or always for LACDPW sites). To collect a field blank decon a bailer thoroughly; pour distilled water into the bailer; pour the distilled water from the bailer into appropriate sample bottle(s) for the analysis

to be performed, allow for no headspace; label the bottle as an arbitrary monitoring well. For example: if there are 5 monitoring wells to be sampled at the site plus a trip blank, and a field blank is to collected, the field blank should be labeled as if it were a sample from MW7 (the trip blank is MW6). If a disposable bailer is used for sampling, use a new disposable bailer to collect the field blank.

9) Label sample containers when they are dry (refer to SOP-1). Place vials from each well in a separate plastic zip lock bag. Put bag in an ice chest and document samples and analyses required on a chain of custody (see attached examples).

10) Replace the locking caps, and the covers. Cover and label the drums of waste water. Place the drums on site in a location selected by the site manager. Usually, this will be near a dumpster or in the back, away from public view. Labels should face outward.

11) Decon all equipment per SOP-5 before leaving the site.

In general, groundwater sampling will be performed in accordance with LUFT guidelines. Several local agencies require that groundwater sampling occur under slightly different guidelines. Check with the project manager to find out which sites require special groundwater sampling procedures. Typically, the following apply:

Orange County Health Care Agency Requirements

No special requirements. Water sampling will be performed as per the State Water Resources Board's LUFT manual.

LARWQCB Groundwater Requirements

- Purge a minimum of three well volumes if recovery is fast, or one borehole volume if recovery is slow (water does not recover to 80% of original level within two hours).
- The last three readings must be within 10% for conductivity, temperature, and pH to show stabilization. This means that all three consecutive readings must be within these limits - the first with the middle, and the first with the last, and the middle with the last. For instance, pH readings of 6.92, 6.95, and 7.00 would be sufficient.
- Even though there are no guidelines for turbidity, the measurements should be less than 10 NTU, or meet the baseline level established during development, upon completion of purging. Check with project manager if you use the baseline turbidity level.
- Prior to sampling document recovery time by measuring the water level in each well to prove that at least 80% recovery has occurred.
- A trip blank must be collected.
- In the comments column of the chain of custody, write "Prepare laboratory report in WIP format."

San Diego Department of Health Services Groundwater Sampling Requirements

- SDDHS does not encourage purging wells until dry.
- Purge one borehole volume of water if recovery is fast, collecting pH/temperature/conductivity measurements while purging, then remove an additional one-half borehole volume of water. If the first and second measurements vary by less than 10%, purging is considered adequate. If not, keep purging water in one-half borehole volume increments until the measurements vary by less than 10%,

or three borehole volumes have been removed. Obtain three consecutive pH/temperature/conductivity measurements that are within 10% of each other.

- If recovery is slow (water does not recover to 80% of original level within two hours) purge only one borehole volume of water.
- Prior to sampling document recovery time by measuring the water level in each well to prove that at least 80% recovery has occurred.

Ventura County Environmental Health Division
Groundwater Sampling Requirements

- A trip blank and a duplicate sample must be analyzed for each site.
- Custody seals must be place over the cap of each sample.

Under certain conditions the calculated purge volumes will need to be calculated in borehole volumes instead of well casings volumes. Use the following to calculate borehole volume in gallons.

Well I.D.	Bore Volume
2"	0.90 gal/ft. in water
4"/or nested wells	1.70 gal/ft. in water

The completed groundwater sampling log must contain:
- pH/temp./conductivity and turbidity measurements indicating stabilization
- time and volume of water removed at each pH/temp./conductivity measurements
- total volume of water purged
- name of personnel performing sampling
- date and project number
- problems or unusual conditions arising during purging or sampling, such as the well going dry during purging, water in the well vault, missing well caps or locks, odors, appearance of purge water, etc.
- 80% recovery measurement and time of measurement after purging and before sampling

All chains of custody for the client's groundwater sites must contain the consultant work release number, station identification number and client contact among the other items to be filled out. Check the groundwater sampling field log and chain of custody for completeness, accuracy and neatness. If you have any questions, call!!!

Make sure that the date and time of relinquished and accepted at the lab are the same on the chain of custody. Also, make sure the lab fills in the sample condition information and signs for the samples on the chain of custody

Santa Barbara County Environmental Health Services
Groundwater Monitoring Guidelines

I. Groundwater Monitoring

A. Groundwater levels are to be monitored/measured in **all wells** in a short time span.
B. Measure the groundwater levels (correct for "free product" thickness).
C. Use a clear bailer to check for the presence of "floating product," sheen, and odors.
D. Replace well cover until ready to purge well.

II. Purging

A. Amount: generally 3 to 5 (no more than 10) well volumes; via bailer, pumps, or vacuum truck.

B. Parameters (pH, temperature, conductivity) shall stabilize while purging.
   1. Measure the parameters of a small volume (i.e., a 500 ml) of the water as it is removed from the well. Measure the parameters initially and at regular volume intervals (e.g., after every well casing volume). More frequent testing may be needed if the well is known to go dry.
   2. Wells must be allowed to recharge prior to sampling (see section G of the Santa Barbara County LUFT Manual).

C. Slow recharging wells are wells that are purged dry before removing 3 well volumes of water, and take more than **two (2)** hours to recharge.
   1. Note this on the field records and estimate the number of well volumes removed.
   2. Allow the well to recharge a minimum of two (2) feet and then sample.
   3. **Sample wells no later than 24 hours after purging.**
   4. Note the water level and percentage of recharge in the report.

III. Sample Collection

A. Use either a decontaminated Teflon, stainless steel, or disposable bailer.

B. Sample containers are to be supplied and certified by a laboratory:
   1. VOAs of 40 ml volume (at least 3 per well – check with lab and the PM for specific requirements); fill VOAs first to reduce volatization.
   2. 4 oz sample containers for Pb (metallic lead) analysis (if needed).

C. Fill containers by pouring along the inside of the vial to reduce volatilization.

D. Form a positive meniscus with the water, to avoid trapping air, before placing the cap on the VOA. **Samples with headspace are not acceptable for analysis.**
   1. Check for bubbles by inverting and tapping gently to dislodge bubbles.
   2. If bubbles are found, uncap and repeat steps C and D.

E. Label all samples and store immediately in an ice chest at 4 degrees Celsius filled with ice.

F. Be careful to properly decontaminate equipment between each and every well.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

Western Area Retail Remediation Administrator Exxon Mobil Corporation
Global Remediation - Retail Projects **3700 W 190th St, TPT #2-15**
4. Generator's Phone (**310**) **212-2938** **Torrance, CA 90504**

Greg Barton

5. Transporter 1 Company Name
Environmental Resolutions Inc.

6. US EPA ID Number

A. Transporter's Phone
(949) 457-8950

7. Transporter 2 Company Name
Belshire Environmental/Nieto and Sons

8. US EPA ID Number

B. Transporter's Phone
(949) 859-1077

9. Designated Facility Name and Site Address
Crosby and Overton
1610 West 17th. Street Long Beach, CA 90313

10. US EPA ID Number

C. Facility's Phone
(562) 432-5445

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. **Non-Hazardous Waste Liquid Not Regulated by D.O.T.**	**001**	**TT**	**144**	**G**
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Purged Groundwater

E. Handling Codes for Wastes Listed Above

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15. Special Handling Instructions and Additional Information

ERI 3316-13
ExxonMobil 18F2Q
12616 Imperial Highway, Norwalk, CA.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: **Gary De Carlo of ERI on behalf of ExxonMobil** Signature: [signature] Month: **06** Day: **21** Year: **05**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: **Gary De Carlo of ERI on behalf of ExxonMobil** Signature: [signature] Month: **06** Day: **21** Year: **05**

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: GILBERT GARCIA Signature: Gilbert Garcia Month: **10** Day: **01** Year: **05**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Paul Gahvan Signature: [signature] Month: **10** Day: **10** Year: **05**

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR